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EXAMINER:

DATE CONSIDERED: 12/13/04

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ELECTRONIC INFORMATION DISCLOSURE STATEMENT

Electronic Version v18

Stylesheet Version v18.0

Title of
Invention

IN SITU THERMAL PROCESSING OF A COAL
FORMATION PRODUCING A MIXTURE WITH
OXYGENATED HYDROCARBONS

Application Number: 09/841129



Confirmation Number: 5749

First Named Applicant: Scott Wellington

Attorney Docket Number: 5659-06800

Art Unit: 1764

Examiner: Thuan D. Dang

Search string: (6698515 or 6702016 or 6708758 or 6712135
or 6712136 or 6712137 or 6715546 or 6715547
or 6715549 or 6715548 or 6719047 or 6722431
or 6722430 or 6722429 or 6725920 or 6725921
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or 6769485 or 6769483 or 6581684 or 6588504
or 6588503 or 6591906 or 6591907 or 6607033
or 6609570 or 6688387 or 6761216 or
20040069486 or 20040015023 or 20030213594
or 20040040715 or 20040020642 or
20040108111),pn.

US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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1	1	6698515	2004-03-02	Karanikas et al.			
2	2	6702016	2004-03-09	de Rouffignac et al.			
3	3	6708758	2004-03-23	de Rouffignac et al.			
4	4	6712135	2004-03-30	Wellington et al.			
5	5	6712136	2004-03-30	de Rouffignac et al.			
6	6	6712137	2004-03-30	Vinegar et al.			



7	6715546	2004-04-06	Vinegar et al.
8	6715547	2004-04-06	Vinegar et al.
9	6715549	2004-04-06	Wellington et al.
10	6715548	2004-04-06	Wellington et al.
11	6719047	2004-04-13	Fowler et al.
12	6722431	2004-04-20	Karanikas et al.
13	6722430	2004-04-20	Vinegar et al.
14	6722429	2004-04-20	de Rouffignac et al.
15	6725920	2004-04-27	Zhang et al.
16	6725921	2004-04-27	de Rouffignac et al.
17	6725928	2004-04-27	Vinegar et al.
18	6729397	2004-05-04	Zhang et al.
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21	6729395	2004-05-04	Shahin et al.
22	6732794	2004-05-11	Wellington et al.
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24	6736215	2004-05-18	Maher et al.
25	6739394	2004-05-25	Vinegar et al.
26	6739393	2004-05-25	Vinegar et al.
27	6742593	2004-06-01	Vinegar et al.
28	6742587	2004-06-01	Vinegar et al.
29	6742589	2004-06-01	Berchenko et al.
30	6742588	2004-06-01	Wellington et al.
31	6745837	2004-06-08	Wellington et al.
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38	6769483	2004-08-03	de Rouffignac et al.
39	6581684	2004-06-24	Wellington et al.
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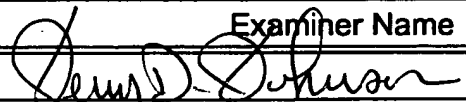
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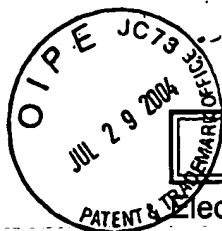
US Published Applications

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Examiner: T. D. Dang
Search string: (3004596 or 3342258 or 3455383 or 3501201
or 3502372 or 3759574 or 4160479 or 4375302
or 4483398 or 4815790).pn.



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Signature

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SERIAL NO. 09/841,129

CONFIRMATION NO: 5749

ART UNIT: 1764

CC01 Porter, H. P., Petroleum Dictionary for Oil, Field, and Factory, The Gulf Publishing Company, 1948, 4th Ed., page 312.

Denny D. Johnson

12/13/04

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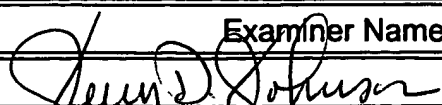
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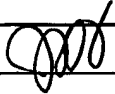
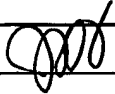
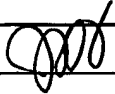
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
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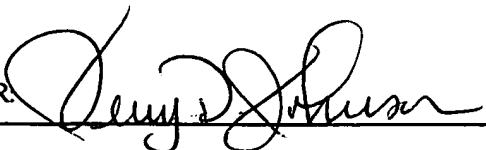
Signature

	Examiner Name	Date
		12/13/04

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-06800 APPLICANT: Wellington et al. FILING DATE: April 24, 2001	SERIAL NO. 09/841,129 CONFIRMATION NO.: 5749 ART UNIT: 1764															
	U.S. PATENT DOCUMENTS																	
	<table border="1"> <thead> <tr> <th>EXAM. INITIALS</th> <th>REF. DES.</th> <th>DOCUMENT NUMBER</th> <th>DATE</th> <th>NAME</th> <th>CLASS</th> <th>SUB CLASS</th> <th>FILING DATE IF APPROPRIATE</th> </tr> </thead> <tbody> <tr> <td></td> <td>U11</td> <td>4006778</td> <td>2/8/1977</td> <td>Redford et al.</td> <td>—</td> <td>—</td> <td></td> </tr> </tbody> </table>			EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE		U11	4006778	2/8/1977	Redford et al.	—	—
EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE											
	U11	4006778	2/8/1977	Redford et al.	—	—												

EXAM. INITIALS	REF. DES.	OTHER ART (including Author, Title, Date, Pertinent Pages, etc.)
	AA11	Van Krevelen, D. W.; COAL: Typology-Physics-Chemistry-Constitution, 1993, p. 371.

EXAMINER:



DATE CONSIDERED: 12/13/04


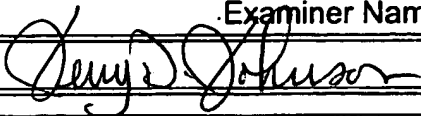
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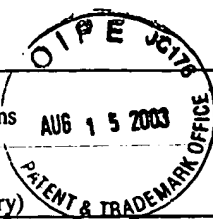
Electronic Version v18

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Title of Invention	IN SITU THERMAL PROCESSING OF A COAL FORMATION PRODUCING A MIXTURE WITH OXYGENATED HYDROCARBONS						
Application Number: 09/841129							
Confirmation Number: 5749					RECEIVED AUG 27 2003 GROUP 3600		
First Named Applicant: Scott Wellington							
Attorney Docket Number: 5659-06800							
Art Unit: 3672							
Examiner: Glenn A. Caldarola							
Search string: (4931171 or 4737267 or 4384948 or 3593790 or 3497000 or 3244231 or 3223166).pn.							
US Patent Documents							
Note: Applicant is not required to submit a paper copy of cited US Patent Documents							
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ATTY. DKT. NO. 5659-06800

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APPLICANT: Wellington et al.

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U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>[initials]</i>	S5	2,857,002	10/21/1958	Pevere et al.	—	—	
<i>[initials]</i>	U1	3,165,154	1/12/1965	Santourian	—	—	
<i>[initials]</i>	U2	4,458,757	7/10/1984	Bock et al.	—	—	

FOREIGN PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATION YES/NO
<i>[initials]</i>	T01	1836876	12/30/1994	SU			Y

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<i>[initials]</i>	T02	Burnham, Alan, K. "Oil Shale Retorting Dependence of timing and composition on temperature and heating rate", January 27, 1995, (23 pages).					
<i>[initials]</i>	T03	Burnham et al. "A Possible Mechanism of Alkene/Alkane Production in Oil Shale Retorting, (7 pages).					
<i>[initials]</i>	T04	Campbell, et al., "Kinetics of oil generation from Colorado Oil Shale" IPC Business Press, Fuel, 1978, (3 pages).					
<i>[initials]</i>	T05	Cummins et al. "Thermal Degradation of Green River Kerogen at 150° to 350 °C", Report of Investigations 7620, U.S. Government Printing Office, 1972, (pages 1-15).					
<i>[initials]</i>	T06	Cook, et al. "The Composition of Green River Shale Oils", United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-23).					
<i>[initials]</i>	T07	Hill et al., "The Characteristics of a Low Temperature in situ Shale Oil" American Institute of Mining, Metallurgical & Petroleum Engineers, 1967 (pages 75-90)..					
<i>[initials]</i>	T08	Dinneen, et al. "Developments in Technology for Green River Oil Shale" United Nations Symposium on the Development and Utilization of Oil Shale Resources, Tallinn, 1968, (pages 1-20).					
<i>[initials]</i>	T09	De Rouffignac, E. "In Situ Resistive Heating of Oil Shale for Oil Production-A Summary of the Swedish Data, (4 pages).					
<i>[initials]</i>	T10	Dougan, et al. "The Potential for in situ Retorting of Oil Shale in the Piceance Creek Basin of Northwestern Colorado", Quarterly of the Colorado School of Mines (pages 57-72).					
<i>[initials]</i>	T11	Hill et al. "Direct Production of Low Pour Point High Gravity Shale Oil" I&EC Product Research and Development, 1967, Volume 6, (pages 52-59).					
<i>[initials]</i>	T12	Yen et al., "Oil Shale" Developments in Petroleum Science, 5, Elsevier Scientific Publishing Co., 1976 (pages 187-198).					
<i>[initials]</i>	T13	SSAB report, "A Brief Description of the Ljungstrom Method for Shale Oil Production," 1950, (12 pages).					
<i>[initials]</i>	T14	Salomonsson G., SSAB report, "The Lungstrom In Situ-Method for Shale Oil Recovery, 1950 (28 pages)					
<i>[initials]</i>	T15	"Swedish shale oil-Production method in Sweden," Organisation for European Economic Co-operation, 1952, (70 pages).					
<i>[initials]</i>	T16	SSAB report, "Kvarn Torp" 1958, (36 pages).					
<i>[initials]</i>	T17	SSAB report, "Kvarn Torp" 1951 (35 pages).					
<i>[initials]</i>	T18	SSAB report, "Summary study of the shale oil works at Narkes Kvarntorp" (15 pages).					
<i>[initials]</i>	T19	Vogel et al. "An Analog Computer for Studying Heat Transfrer during a Thermal Recovery Process," AIME Petroleum Transactions, 1955 (pages 205-212).					

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AUG 15 2003 PATENT & TRADEMARK		APPLICANT: Wellington et al.	GROUP: 1764
		FILING DATE: April 24, 2001	

T20	"SKIFEROLJA GENOM UPPVARMNING AV SKIFFERBERGET," Faxin Department och Namder, 1941, (3 pages)
T21	"Aggregleringens orsaker och ransoneringen grunder", Av director E.F.Cederlund I Statens livesmedelskommission (1page).
T22	Ronby, E. "KVARNTORP-Sveriges Storsta skifferoljeindustri," 1943, (9 pages)
T23	SAAB report, "The Swedish Shale Oil Industry," 1948 (8 pages).
T24	Gejrot et al., "The Shale Oil Industry in Sweden," Carlo Colombo Publishers-Rome, Proceedings of the Fourth World Petroleum Congress, 1955 (8 pages)
T25	Hedback, T. J., The Swedish Shale as Raw Material for Production of Power, Oil and Gas," XIth Sectional Meeting World Power Conference, 1957 (9 pages)
T26	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand", 1955 Vol. 1, (141 pages) English
T27	SAAB, "Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Figures", 1955 Vol. 2, (146 pages) English.
T28	"Santa Cruz, California, Field Test of the Lins Method for the Recovery of Oil from Sand-Memorandum re: tests", 1955 Vol. 3, (256 pages) English.
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T30	Helander et al., Santa Cruz, California, Field Test of Fluidized Bed Burners for the Lins Method of Oil Recovery" 1959, (86 pages) English.
T31	SSAB report, "Bradford Residual Oil, Athabasa Ft. McMurray" 1951, (207 pages), partial translation.
T32	"Lins Burner Test Results-English" 1959-1960
T33	SSAB "Annual Reports, SSAB Laboratory, Address Annually Issues-Shale and Ash, Oil, Gas, Waste Water, Analytical", 1953-1954, (166 pages). Swedish
T34	SSAB report, "Financial Matter, Swedish taxes, etc.," 1960-1961 (37 pages). Swedish
T35	SSAB report, "Cost For Mining," 1959-1979 (13 pages). Swedish
T36	SSAB report, "Cost Comparison of Mining and Processing of Shale and Dolomite Using Various Production Alternatives", 1960, (64 pages). Swedish
T37	SSAB report, "Assessment of Future Mining Alternatives of Shale and Dolomite," 1962, (59 pages) Swedish.
T38	SSAB report. "Kartong 2 Shale: Ljungstromsanlaggnigen" (104 pages) Swedish.
T39	SAAB, "Photos", (18 pages).
T40	SAAB report, "Swedish Geological Survey Report, Plan to Delineate Oil shale Resource in Narkes Area (near Kvarntorp)," 1941 (13 pages). Swedish.
T41	SAAB report, "Recovery Efficiency," 1941, (61 pages). Swedish.
T42	SAAB report, "Geologic Work Conducted to Assess Possibility of Expanding Shale Mining Area in Kvarntorp; Drilling Results, Seismic Results," 1942 (79 pages). Swedish.
T43	SSAB report, "Ojematnigar vid Norrtorp," 1945 (141 pages).
T44	SSAB report, "Inhopplingschema, Norrtorp II 20/3-17/8", 1945 (50 pages). Swedish.
T45	SSAB report, "Secondary Recovery after LINS," 1945 (78 pages)
T46	SSAB report, "Maps and Diagrams, Geology," 1947 (137 pages). Swedish.

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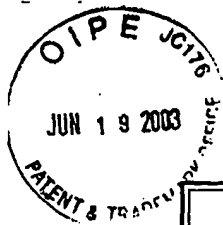
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init	Cite.No.	Patent No.	Date	Patentee	Kind	Class	Subclass
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	2	3947683	1976-03-30	Schultz et al.			

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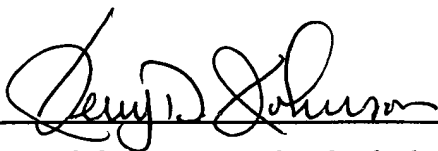
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Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-06800/TH1993 APPLICANT: Wellington et al. FILING DATE: April 24, 2001	SERIAL NO. 09/841,129 GROUP: 3672				
FOREIGN PATENT DOCUMENTS							
EXAM. INITIALS 	REF. DES. AA2	DOCUMENT NUMBER 294 809	DATE 1988-12-14	COUNTRY EP	CLASS -	SUB CLASS	TRANSLATION YES/NO

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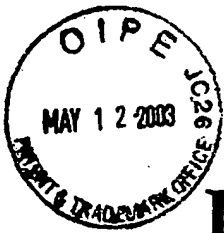
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IN SITU THERMAL PROCESSING OF A COAL FORMATION PRODUCING A MIXTURE WITH OXYGENATED HYDROCARBONS

Application: 
09/841129

Confirmation: 5749

Applicant(s): Scott Wellington

Docket
Number: 5659-06800




Group Art
Unit:

Examiner: Unknown

search string: (4193451 or 4265307 or 4390067 or 4456065 or 4457374 or 4479541 or 4498535 or 4598770
or 4669542 or 4682652 or 4982786 or 5201219 or 5339904 or 3349845).pn.

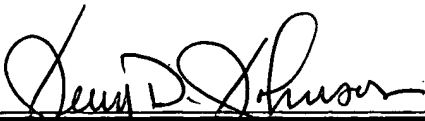
US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P08	4193451	1980-03-18		Dauphine		
	P09	4265307	1981-05-05		Elkins		
	P10	4390067	1983-06-		Wilman		

			28		
P11	4456065	1984-06-26		Heim et al.	
P12	4457374	1984-07-03		Hoekstra et al.	
P13	4479541	1984-10-30		Wang	
P14	4498535	1985-02-12		Bridges	
P15	4598770	1986-07-08		Shu et al.	
P16	4669542	1987-06-02		Venkatesan	
P17	4682652	1987-07-28		Huang et al.	
P18	4982786	1991-01-08		Jennings, Jr.	
P19	5201219	1993-04-13		Bandurski et al.	
P20	5339904	1994-08-23		Jennings, Jr.	
P25	3349845	1967-10-31		Holbert et al.	

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Examiner Name	Date
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IN SITU THERMAL PROCESSING OF A COAL FORMATION PRODUCING A MIXTURE WITH OXYGENATED HYDROCARBONS

Application:



09/841129

Confirmation: 5749

Applicant(s): Scott Wellington

Docket
Number: 5659-06800

Group Art Unit:

Examiner: Unknown.

search string: (3221811 or 3987851 or 4042026 or 4005752 or 5868202 or 5126037 or 3477058 or 3580987).pn.

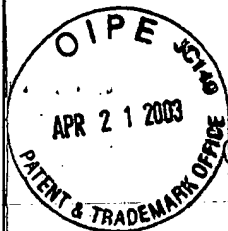
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US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

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	P01	3221811	1965-12-07		Prats		
	P02	3987851	1976-10-26		Tham		
	P03	4042026	1977-08-16		Pusch et al.		



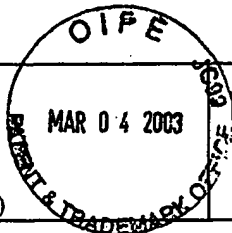
P04	4005752	1977-02-01		Cha
P05	5868202	1999-02-09		Hsu
P06	5126037	1992-06-30		Showalter
P07	3477058	1968-11-04		Vedder et al.
P08	3580987	1971-05-25		Priaroggia

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ATTY. DKT. NO. 5659-06800/TH1993

SERIAL NO. 09/841,129

APPLICANT: Wellington et al.

GROUP: 3672

FILING DATE: April 24, 2001

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

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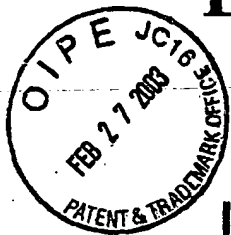
Van Krevelen, COAL: Typology-Physics-Chemistry-Constitution, 1993, pp. 27, 42, 52, 322, 323, 324, 325, 326, 526, 527, 726.

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IN SITU THERMAL PROCESSING OF A COAL FORMATION PRODUCING A MIXTURE WITH OXYGENATED HYDROCARBONS

Application: 
09/841129

Confirmation: 5749

Applicant(s): Scott Wellington

Docket Number: 5659-06800

Group Art Unit:

Examiner: Unknown

search string: (4087130 or 4537252 or re30019 or 2623596 or 3775185 or 4524113 or 5284878 or 5767584 or 5955039 or 4091869 or 4513816 or 0094813 or 5008085 or 4099567 or 0048994 or 64852332 or 20020018697).pn.





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US Patent Documents

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init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
	P23	4087130	1978-05-02		Garrett		
	P24	4537252	1985-08-27		Puri		

P25	re30019	1979-06-05		Lindquist
P26	2623596	1952-12-30		Whorton et al.
P27	3775185	1973-11-27		Kunz et al.
P28	4524113	1985-06-18		Lesieur
P29	5284878	1994-02-08		Studer et al.
P30	5767584	1998-06-16		Gore et. al
P31	5955039	1999-09-21		Dowdy
P32	4091869	1978-05-30		Hoyer
P33	4513816	1985-04-30		Hubert
P34	0094813	1869-09-14		Dickey
P35	5008085	1991-04-16		Bain et al.
P36	4099567	1978-07-11		Terry
P37	0048994	1865-07-25		Parry
P38	64852332	2002-11-26		Vinegar et al.

Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

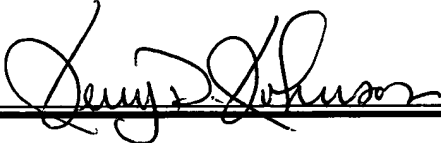
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Remarks

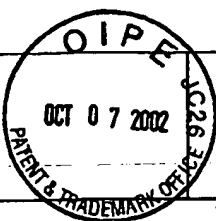
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Please note: Foreign patent documents and non-patent references will be sent using a standard US PTO 1449 Form.

Signature

Examiner Name	Date
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SERIAL NO. 09/841,129

APPLICANT: Wellington et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	H1	4,093,025	June 78	Terry			
	H3	4,895,206	Jan-90	Price			
	J1	326,439	Sep-1885	McEachen			
	J2	1,681,523	Feb-1928	Downey et. al.			
	J3	2,244,256	Jun-1941	Looman			
	J4	2,714,930	Aug-1955	Carpenter			
	J5	3,547,193	Dec-1970	Gill			
	J6	3,562,401	Feb-1971	Long			
	J7	4,089,374	May-1978	Terry			
	J8	4,423,311	Dec-1983	Varney, Sr.			
	J9	4,489,782	Dec-1984	Perkins			
	J10	4,626,665	Dec-1986	Fort, III			
	J11	4,694,907	Sep-1987	Stahl et. al.			
	J12	5,182,792	Jan-1993	Goncalves			
	J13	5,402,847	Apr-1995	Wilson et. al.			
	J14	5,491,969	Feb-1996	Cohn et. al.			
	J15	5,621,844	Apr-1997	Bridges			
	J16	6,244,338	Jun-2001	Mones			
	J17	6,389,814	May-2002	Viteri et al.			
	J18	6,412,559	Jul-2002	Gunter et al.			
	J20	3,680,633	Aug-1972	Bennett			
	J21	4,508,170	Apr-1985	Littman			

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	J19	97/01017	Jan-1997	WO			

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	H2	Hobson, G.D., Modern Petroleum Technology, Halsted Press, Applied Science Publishers LTD. 1973, pp. 786, 787					
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ATTY. DKT. NO. 5659-06800/TH1993

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APPLICANT: Wellington et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

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	G5	3,766,982	Oct-73	Justheim	1	1	
	G7	3,599,714	Aug-71	Messman et al.	1	1	
	G8	4,043,393	Aug-77	Fisher et al.	1	1	

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

	G6	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 164-165.
	G9	Hyne, Norman J. Geology for Petroleum Exploration, Drilling, and Production. McGraw-Hill Book Company, 1984, p. 264.

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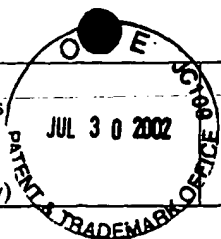
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GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	G5	3,766,982	Oct-1973	Justheim	—	—	

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①	F1	4,252,191	Feb-1981	Pusch et al.	1	1	
1	F2	3,310,109	Mar-1967	J. W. Marx et al.	1	1	
1	G1	3,675,715	Jul-1972	Speller, Jr.	1	1	
1	G2	3,809,159	May-1974	Young et al.	1	1	
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)							
①	F3	Thermal, Mechanical, and Physical Properties of Selected Bituminous Coals and Cokes, J. M. Singer and R. P. Tye, US Department of Interior, Bureau of Mines (1979) Government Report No. 8364.					
1	G3	Rogers, Rudy E. "Coalbed Methane: Principles and Practice" Prentice-Hall, Inc. 1994, pp. 68-97.					
1	G4	Department of Energy Coal Sample Bank and Database http://www.energy.psu.edu/arg/doesb.htm , June 4, 2002.					

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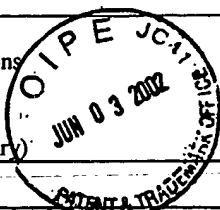
David D. Johnson

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SERIAL NO. 09/841,129

APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
	E1	3,181,613	May-1965	Krueger			
	E2	3,922,148	Nov-1975	Child			
	E3	3,924,680	Dec-1975	Terry			
	E4	5,020,596	Jun-1991	Hemsath			
	E5	5,229,102	Jul-1993	Minet et al.			
	E6	5,316,664	May-1994	Gregoli et al.			
	E7	5,366,012	Nov-1994	Lohbeck			
	E8	5,541,517	Jul-1996	Hartmann et al.			
	E9	5,861,137	Jan-1999	Edlund			
	E10	6,354,373	Mar-2001	Vercaemer et al.			
	E15	4,463,807	Aug-1984	Stoddard et al.			

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	E11	Coal, Encyclopedia of Chemical Technology, Kirk, R.E., Kroschwitz, J.I., Othmer, D.F., Wiley, New York, 4th edition, 1991, Vol. 6, pp. 423-488.
	E12	Cortez et al., UK Patent Application GB 2,068,014 A, Date of Publication: August 5, 1981.
	E13	Wellington et al., US Patent Application 60/273,354, Filed March 5, 2001.
	E14	The VertiTrak System Brochure, Baker Hughes, INT-01-1307A4, 2001 8 pages.

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APPLICANT: Wellington, et al.

FILING DATE: April 24, 2001

SERIAL NO. 09/841,129

GROUP: 3672

U.S. PATENT DOCUMENTS

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	C1	1,269,747	6/1918	Rogers			
	C2	1,457,479	6/1923	Wolcott			
	C3	1,634,236	6/1927	Ranney			
	C4	2,630,307	3/1953	Martin			
	C5	2,685,930	8/1954	Albaugh			
	C6	2,703,621	3/1955	Ford			
	C7	2,771,954	11/1956	Jenks et al.			
	C8	2,793,696	5/1957	Morse			
	C9	2,890,754	6/1959	Hoffstrom et al.			
	C10	2,890,755	6/1959	Eurenius et al.			
	C11	2,906,340	9/1959	Herzog			
	C12	2,932,352	4/1960	Stegemeier			
	C13	2,958,519	11/1960	Hurley			
	C14	3,010,513	11/1961	Gerner			
	C15	3,010,516	11/1961	Schleicher			
	C16	3,036,632	5/1962	Koch et al.			
	C17	3,044,545	7/1962	Tooke			
	C18	3,061,009	10/1962	Shirley			
	C19	3,062,282	11/1962	Schleicher			
	C20	3,084,919	4/1963	Slater			
	C21	3,113,619	12/1963	Reichle			
	C22	3,116,792	1/1964	Purre			
	C23	3,120,264	2/1964	Barron			
	C24	3,127,935	4/1964	Poettmann et al			
	C25	3,127,936	4/1964	Eurenius			
	C26	3,132,692	5/1964	Marx et al.			
	C27	3,205,944	9/1965	Walton			
	C28	3,233,668	2/1966	Hamilton et al.			
	C29	3,273,640	9/1966	Huntington			
	C30	3,275,076	9/1966	Sharp			

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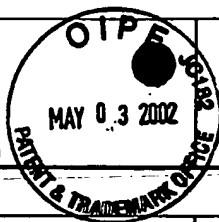
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DATE CONSIDERED: 12/13/04

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APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>OO</i>	C31	3,294,167	12/1966	Vogel			
	C32	3,352,355	11/1967	Putman			
	C33	3,379,248	4/1968	Strange			
	C34	3,605,890	9/1971	Holm			
	C35	3,617,471	11/1971	Schlinger et al.			
	C36	3,661,423	5/1972	Garrett			
	C37	3,770,398	11/1973	Abraham et al.			
	C38	3,882,941	5/1975	Pelofsky			
	C39	3,948,319	4/1976	Pritchett			
	C40	3,954,140	5/1976	Hendrick			
	C41	3,986,349	10/1976	Egan			
	C42	3,999,607	12/1976	Pennington et al.			
	C43	4,008,762	2/1977	Fisher et al.			
	C44	4,019,575	4/1977	Pisio et al.			
	C45	4,026,357	5/1977	Redford			
	C46	4,049,053	9/1977	Fisher et al.			
	C47	4,057,293	11/1977	Garrett			
	C48	4,067,390	1/1978	Camacho et al.			
	C49	4,069,868	1/1978	Terry			
	C50	4,084,637	4/1978	Todd			
	C51	4,114,688	9/1978	Terry			
	C52	4,144,935	3/1979	Bridges et al.			
	C53	4,183,405	1/1980	Magnie			
	C54	4,228,854	10/1980	Sacuta			
	C55	4,243,101	1/1981	Gruppings			
	C56	4,277,416	7/1981	Grant			
	C57	4,306,621	12/1981	Boyd et al.			
	C58	4,324,292	4/1982	Jacobs et al.			
	C59	4,344,483	8/1982	Fisher et al.			

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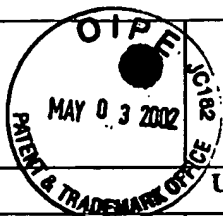
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EXAMINER: *James Johnson*

DATE CONSIDERED: 12/13/04

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Form PTO-1449 (modified)
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ATTY. DKT. NO. 5659-06800/TH1993

SERIAL NO. 09/841,129

APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE/ APPROPRIATE
<i>[Handwritten initials]</i>	C60	4,353,418	10/1982	Hoekstra et al.			JUN 11 2002
	C61	4,384,613	5/1983	Owen et al.			
	C62	4,396,062	8/1983	Iskander			TC 1700
	C63	4,397,732	8/1983	Hoover et al.			
	C64	4,444,255	4/1984	Geoffrey et al.			
	C65	4,448,251	5/1984	Stine			
	C66	4,448,252	5/1984	Stoddard et al.			
	C67	4,457,365	7/1984	Kasevich et al.			
	C68	4,476,927	10/1984	Riggs			
	C69	4,485,869	12/1984	Sresty et al.			
	C70	4,524,826	6/1985	Savage			
	C71	4,549,396	10/1985	Garwood et al.			
	C72	4,573,530	3/1986	Audeh et al.			
	C73	4,576,231	3/1986	Dowling et al.			
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EXAMINER: *[Handwritten signature: David D. Johnson]*

DATE CONSIDERED: 12/13/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified)
List of Patents and Publications
For Applicant's Information
Disclosure Statement
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ATTY. DKT. NO. 5659-06800/TH1993

SERIAL NO. 09/841,129

APPLICANT: Wellington, et al.

GROUP: 3672

FILING DATE: April 24, 2001

U.S. PATENT DOCUMENTS

EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS	FILING DATE IF APPROPRIATE
<i>[initials]</i>	C90	5,082,055	1/1992	Hemsath			
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EXAM. INITIALS	REF. DES.	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS	TRANSLATI ON YES/NO
<i>[initials]</i>	C99	2,015,460	10/1991	CA			
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EXAMINER:

[Signature]

DATE CONSIDERED:

12/13/04

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to the patent owner.

Form PTO-1449 (modified) List of Patents and Publications For Applicant's Information Disclosure Statement (Use several sheets if necessary)		ATTY. DKT. NO. 5659-06800/TH1993 APPLICANT: Wellington, et al. FILING DATE: April 24, 2001	SERIAL NO. 09/841,129 GROUP: 3672
OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)			
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	C107	Conversion characteristics of selected Canadian coals based on hydrogenation and pyrolysis experiments, W. Kalkreuth, C. Roy, and M. Steller. Geological Survey of Canada, Paper 89-8, 1989, pages 108-114, XP001014535	
	D9	Passey et al., US Patent Application Publication 2001/0049342 A1, December 6, 2001.	
	D10	Tar and Pitch, G. Collin and H. Hoeke. Ullmann's Encyclopedia of Industrial Chemistry, Vol. A 26, 1995, p. 91-127.	

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